

MITCHEL MOHAMAD AFFANDI

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Bandung, West Java, Indonesia

I am a Telecommunications Engineering student at Telkom University with a consistent 4.00/4.00 GPA, driven by a disciplined approach to technical and academic excellence. My specialization focuses on system logic and scalable architectures, with a strong foundation in building high-performance software. Moving forward, I am eager to deepen my expertise in Cloud Computing and the practical application of AI/ ML, aiming to integrate these technologies into robust, production-grade engineering solutions. I am committed to a path of continuous technical refinement, focusing on creating efficient systems that bridge complex infrastructure with innovative software design.

Professional Experience

PT. Ekshalasi Langit Biru - Bandung, Indonesia

Apr 2025 - Present

Backend Developer

- Engineered Golang services to process 10K+ daily sensor data points, utilizing Redis to accelerate data retrieval by 55%.
- Optimized Google Cloud database architectures, slashing query latency by 40% through advanced restructuring and high-performance management.
- Architected CI/CD pipelines via GitHub Actions that cut deployment time by 60% and boosted sprint delivery by 25%.
- Refactored legacy codebases into a modular microservices architecture, improving code maintainability and reducing technical debt by 35% for long-term project scalability.

Sri Eshwar College of Engineering x International Summer Internship Programme - Coimbatore, India

Jul 2025 - Aug 2025

International Research Intern

- Participated in an intensive international research program focused on Artificial Intelligence applications in business innovation and industrial transformation.
- Engaged in collaborative research discussions and domain-specific sessions on machine learning, data analytics, and AI-driven decision-making tools.
- Executed interdisciplinary projects demonstrating how AI transforms industries like finance and operations, fostering global academic and professional exposure.
- Collaborated within a multicultural environment to solve complex problems through case studies and industrial visits, enhancing cross-cultural technical cooperation.

PBI Evermos x Rakamin Academy - Bandung, Indonesia

Jan 2025 - Feb 2025

Backend Developer

- Engineered backend algorithms using Golang, focusing on optimizing query execution and server-side logic.
- Managed database operations and schema design using MySQL to ensure data integrity across the platform.
- Optimized server performance and stability prior to deployment, effectively minimizing system downtime.
- Streamlined team workflows through structured version control and collaborative practices using Git.

Cyber Physical System Laboratory - Bandung, Indonesia

Sep 2024 - Present

Research Assistant & Head of Human Resource Division

- Engineered RESTful APIs and backend algorithms using Node.js and Express.js, optimizing data retrieval and system latency for laboratory research.
- Architected scalable database structures using MySQL and PostgreSQL, ensuring high availability and structured data management for multi-user research projects.
- Directed laboratory operations and project workstreams as Head of HR, centralizing internal workflows via Notion to improve cross-departmental collaboration.

International Class Student Volunteer - Bandung, Indonesia

Feb 2025 - Feb 2026

President

- Directed organizational agendas and strategic initiatives for 50+ members, fostering a productive and inclusive work environment.
- Spearheaded mentorship and leadership platforms to enhance student engagement and ensure equal opportunities for international students.
- Coordinated directly with the International Class Academic Office to streamline communication and departmental collaboration.

IEEE Branch Telkom University - Bandung, Indonesia

Jan 2025 - Jan 2026

Human Resource Staff

- Managed quality control and performance metrics for internal members to optimize organizational engagement and long-term retention.
- Spearheaded recruitment cycles using structured evaluation processes to drive sustainable organizational growth.
- Coordinated cross-functional workshops to align technical and administrative divisions with IEEE standards, streamlining internal communication.

Education Level

Telkom University - Bandung, Indonesia

Sep 2023 - Feb 2027 (Expected)

Bachelor of Telecommunication Engineering, 4.00/4.00

- Awardee of "Beasiswa Pintar"
- Served as Telecommunications Engineering International Class Coordinator for 6 semesters.

SMAN 2 Tasikmalaya - Tasikmalaya, Indonesia

Jun 2020 - May 2023

High School Diploma in Science and Mathematics, 95.01/100.00

- Ranked in the Top 10 best graduates.
- Crowned as Jajaka of SMAN 2 Tasikmalaya (2021).

Project Experience

Boostify - Cyber Physical System Laboratory

Sep 2024 - Oct 2024

Fullstack Developer

- Engineered an AI-integrated attendance system for 40+ members utilizing Face Recognition, resulting in an 80% improvement in check-in efficiency.
- Architected the full-stack infrastructure and database ERD, implementing secure authentication and CRUD operations using Express.js and PostgreSQL.
- Deployed a scalable backend using Prisma and Supabase, ensuring robust data management and high system availability.
- Tech Stack: Express.js, PostgreSQL, Supabase, Prisma, ImageKit, Vercel.

Cyber Academy Website - Cyber Physical System Laboratory

Oct 2024 - Nov 2024

Backend Developer

- Architecture & Database Design: Designed the ERD and backend architecture for a mentoring registration and Learning Management System (LMS), ensuring a robust database structure using PostgreSQL.
- Feature Development: Engineered core functionality, including task posting and submission systems, utilizing Express.js and Prisma to enhance user engagement.
- Tech Stack: Express.js, PostgreSQL, Prisma, Postman, Git, Vercel.

SiJaga - Cyber Physical System Laboratory: Pengabdian Masyarakat

Nov 2024 - Jan 2025

Backend Developer & Head of Documentation

- IoT & Real-Time Systems: Developed a smart IoT locker monitoring system featuring real-time data synchronization via WebSockets.
- API Architecture & Optimization: Designed and deployed 15+ RESTful APIs, reducing backend processing time by 40% while managing project documentation and media assets.
- Tech Stack: Express.js, PostgreSQL, Supabase, Prisma, WebSocket, Railway.

SingularityX - PT. Ekshalasi Langit Biru

May 2025 - Present

Backend Developer/Architect

- System Architecture & Real-Time Data: Architected a modular, scalable environmental monitoring system using Go and WebSockets, enabling real-time data exchange and drastically improving system responsiveness.
- Performance Optimization: Integrated Redis caching and optimized queries, achieving 55% faster data retrieval and managing 10K+ daily sensor data entries on Google Cloud.
- DevOps & Workflow: Streamlined development by building CI/CD pipelines with GitHub Actions—reducing deployment time by 60%—and managed agile workflows via Notion.

Skills

- **Technical Skills:** HTML, CSS, JavaScript, PHP, Go, Node.js, Express.js, Laravel, MySQL, PostgreSQL, Google Cloud, Redis, WebSocket, GIT, GitHub, Postman, DBeaver, pgAdmin, Vercel, Railway, Supabase, CI/ CD (GitHub Actions), Figma, Notion, Google Workspace, MS Office
- **Soft Skills:** Team Management, Public Speaking, Time Management, Flexibility, Adaptability, Continuous Learning, Problem Solving
- **Languages:** English (Advanced), Indonesian (Native), German (Basic)

Certifications

- **Introduction to Network** | Cisco | May 14, 2025
- **Computer Network Fundamental** | Coding Studio | February 1, 2025
- **Introduction to Data Science** | Cisco | May 15, 2025
- **Python Programming** | Red Hat | May 5, 2025
- **Artificial Intelligence Introduction** | MySkill | October 22, 2023
- **Introduction to React JS** | Edspert.id | September 13, 2023